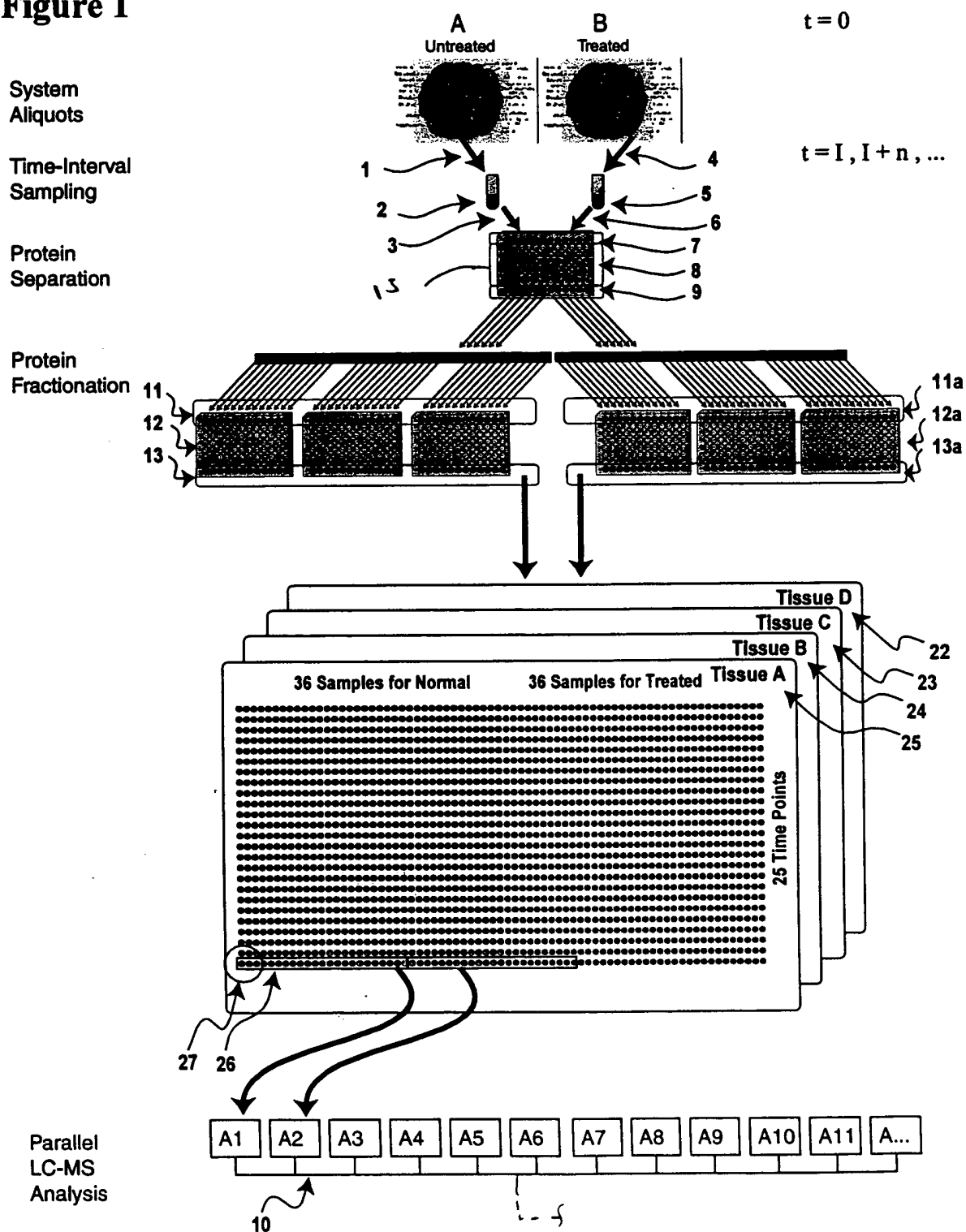


**Figure 1**



**Sheet 1 of 7 Sheets**

**Applicant:** James R. LaDine et al.

**Title:** PROTEOMIC ANALYSIS BY PARALLEL  
MASS SPECTROMETRY

**Serial No.:** 09/835,273

**Art Unit:** 1641

**Attorney/Agent:** Christine P. Bellon, Reg. No. 41,611

**Docket No.:** 12800-003001

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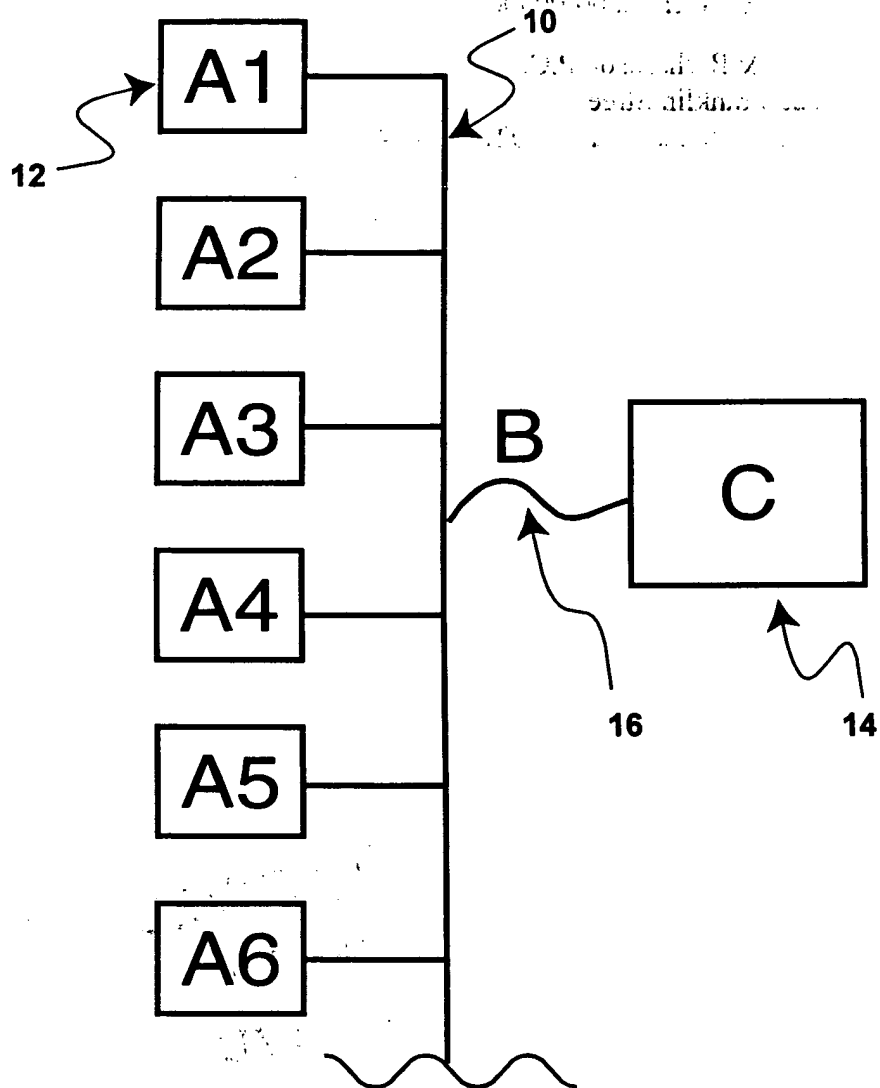
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Figure 2



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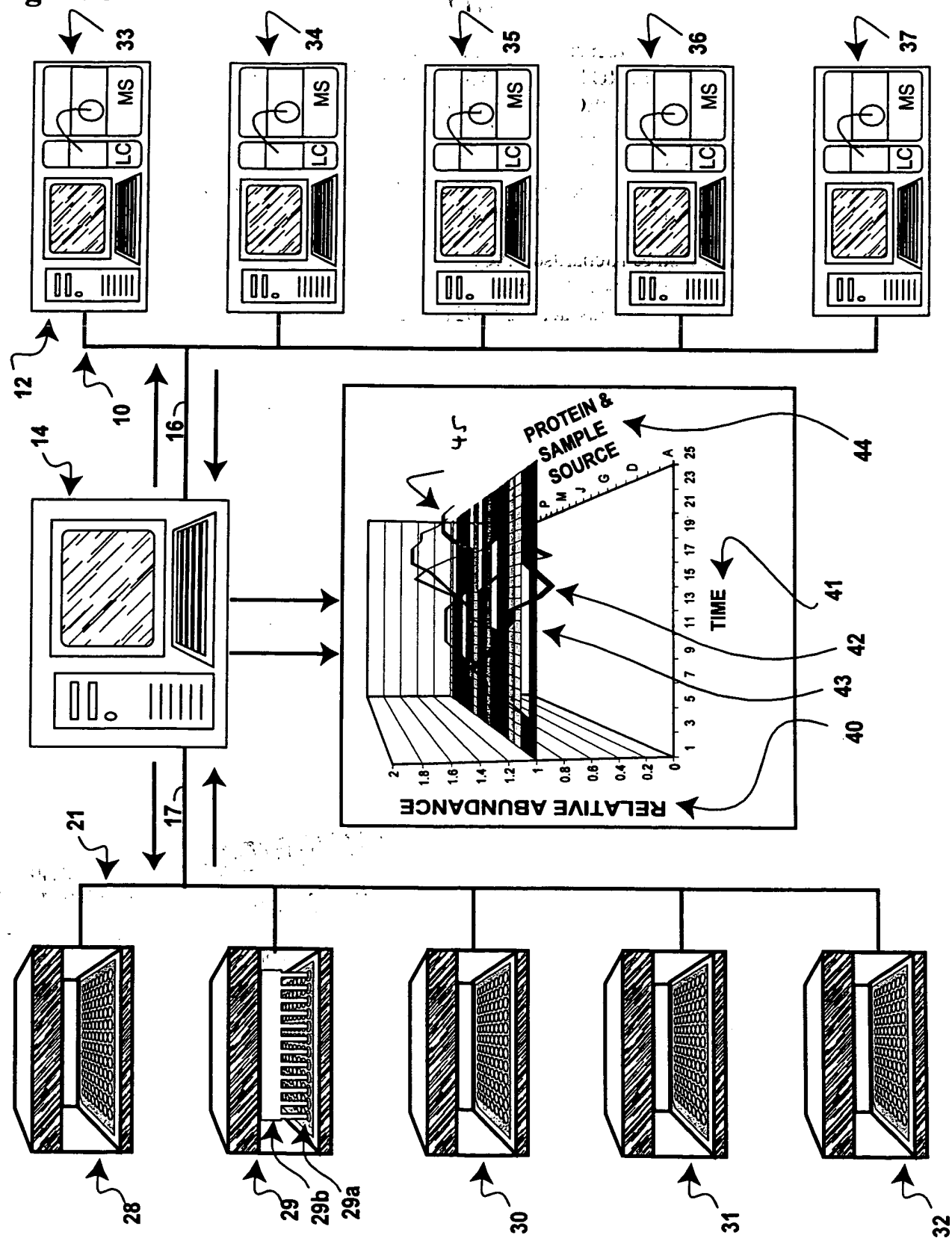
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**Figure 3**



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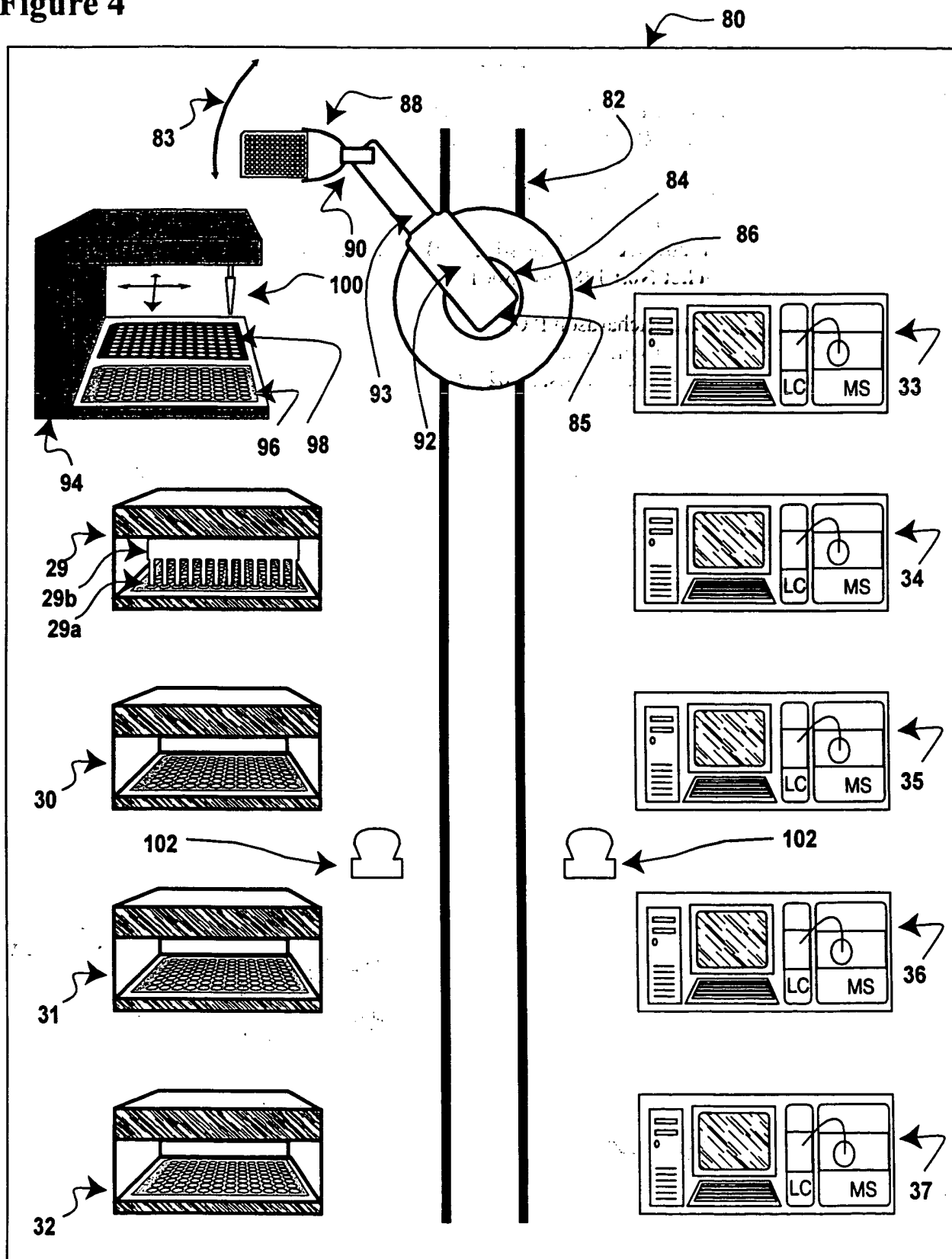
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Figure 4



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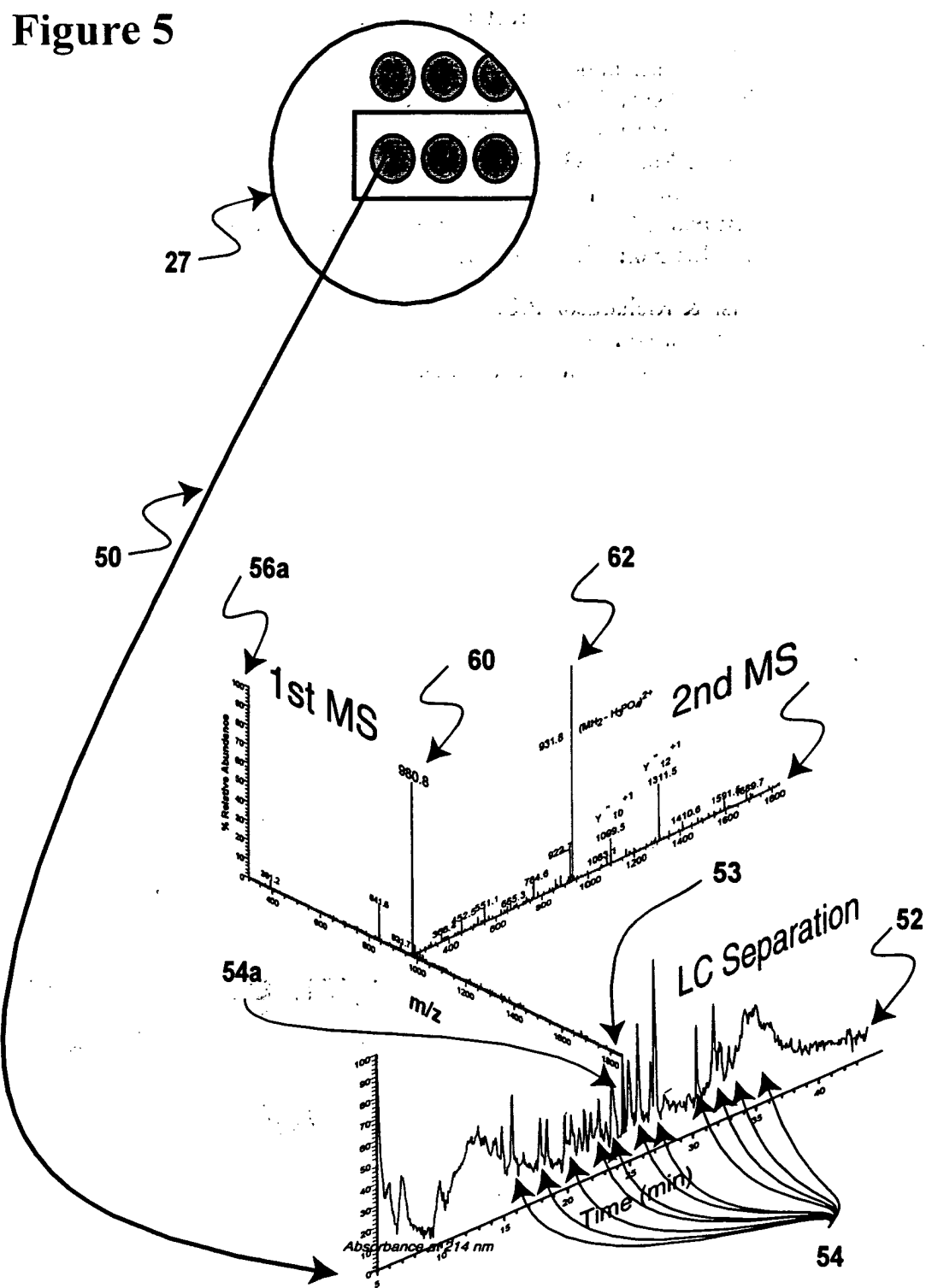
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# Figure 5

Figure 5 illustrates a microfluidic system and its analytical outputs. The top part shows a microfluidic chip (27) with a grid of wells. A line (50) connects a well to a series of plots. The first plot (56a) is the 1st MS spectrum showing relative abundance vs  $m/z$  with peaks at 880.8 and 931.6. The second plot (62) is the 2nd MS spectrum showing relative abundance vs  $m/z$  with peaks at 931.6, 1089.5, 1311.5, 1410.6, 1591.6, and 1600. The third plot (52) is an LC separation chromatogram showing absorbance at 214 nm vs time (min) with multiple peaks. The fourth plot (54a) is a zoomed-in view of the LC separation chromatogram showing absorbance at 214 nm vs time (min) with a single peak at 10.6 minutes.



**Sheet 5 of 7 Sheets**

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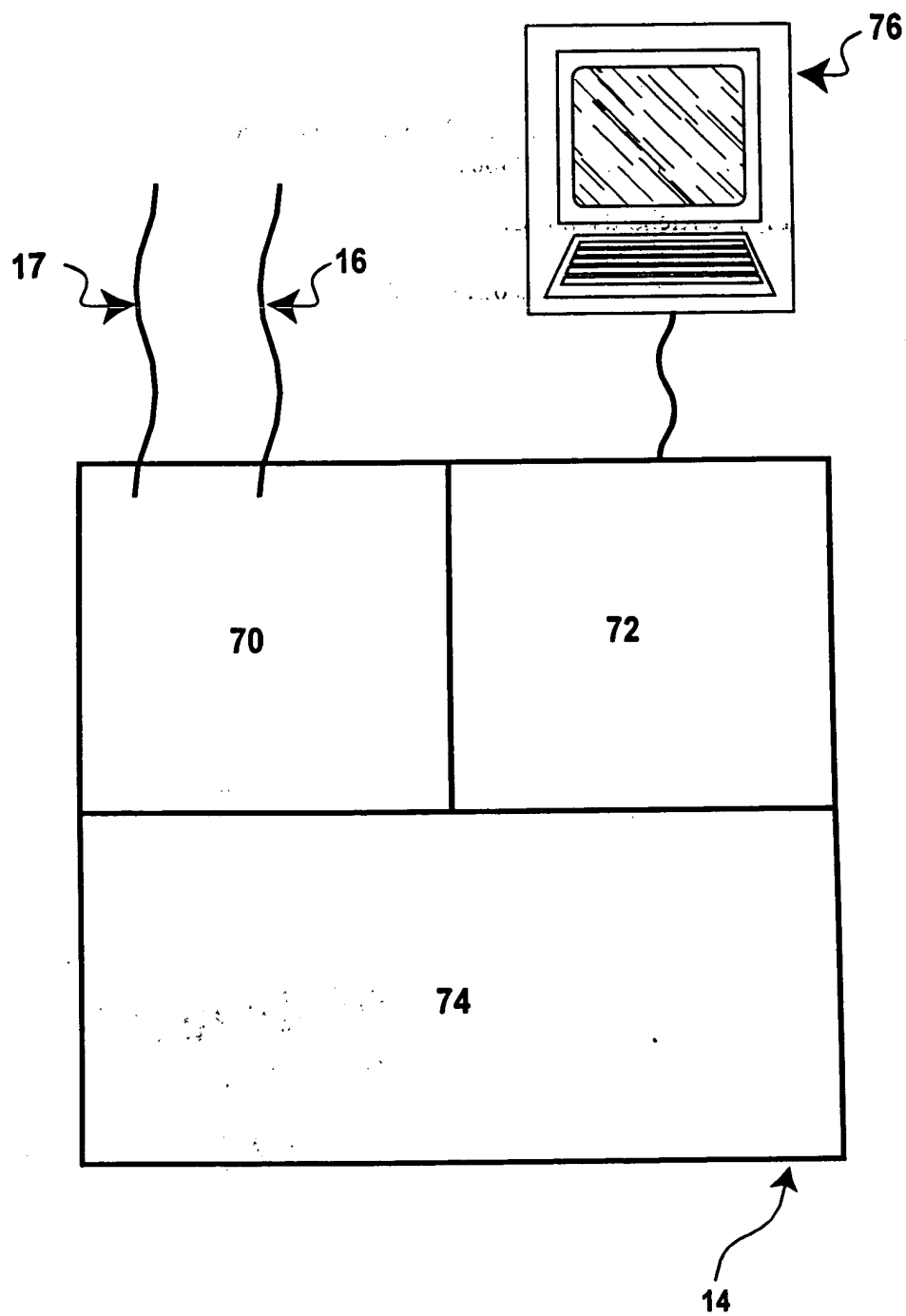
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**Figure 6**



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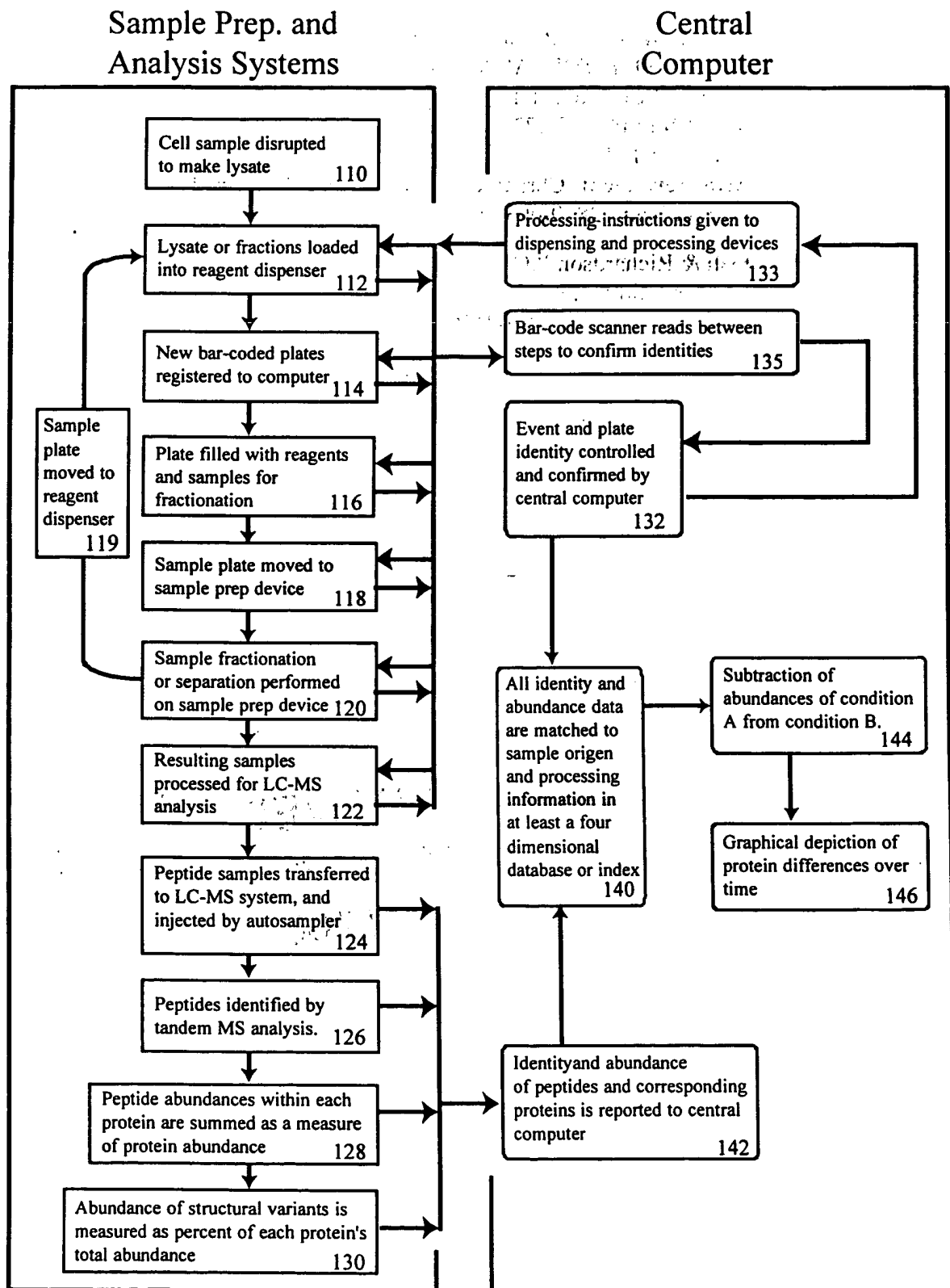
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**Figure 7**



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